

Physics of Shock Waves and High-Temperature Hydrodynamic Phenomena,  
by Yu. B. Zel'dovich, Yu. P. Ruzer,  
1073 pp.  
RUSSIAN, bk, Fizika Udarnykh Voln i  
Vysokotemperaturnykh Gidrodinamicheskikh  
Vzvlecheniy, Moscow, 1963, pp 1-632. 9698607  
FILE-IT-64-514

C U O ??

Sci - Biol & Med Sci; Phys  
Nov 63

291,817

Physics of an Explosion, by F. A. Berez.

RUSSIAN, bk, Mikhail Vavilov, 19 Chapters I-IX,  
1959.

KGB, Pt X Belvoir T-1488  
(2 - 394 30 (1-7))

Sci - Phys  
Aug 62

211, 419

Physics of an Explosion, by P. A. Baumann et al. ~~Scanned~~

RUSSIAN, Mr., Fizika Vzryva, Chapters X-XV, Moscow,  
1959,

ENCL, Pt Belvoir T-1488

62-32430 (10-15)

Sci - Phys  
Jan 63

220,721  
220,709

Baum, F. A., Stasyukovich, K. P., and Shekhter, B. I.  
PHYSICS OF AN EXPLOSION, CHAP. X: COMBUSTION  
OF EXPLOSIVES. [1962] (87p). 13 refs. AERDL  
T-1488 (J); RIS E-875.

Order from OTS or SLA \$8.10      62-32430-3

Partial trans. of mono. [Fizika Vzryvu, Moscow,  
1959, 800p.]

Another trans. is available from OTS \$7.60 as  
AD-278 133, STL Trans-66.

DESCRIPTORS: \*Explosives, \*Combustion, Physics,  
\*Explosions, Ignition, Gases, Flames, Explosive  
gases, Detonation, Pressure, Theory, Fulminates,  
TNT, TETN, RDX, Tetryl, Powders, Benzene,  
Nitro radicals, Organic azides.

Contents: Basic characteristics of combustion processes  
of explosives Combustion of gaseous explosive systems  
(Physics, IT, v. 9, no. 8)      (over)

62-32430-3

- I. Baum, F. A.
- II. Stasyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Combustion...
- V. AERDL T-1488 (J)
- VI. RIS E-875
- VII. Army Engineer  
Research and Develop-  
ment Lab., Fort  
Belvoir, Va.
- VIII. Research Information  
Service, New York
- IX. 62-32430-4 canceled.  
Included in 62-32430-3

Office of Technical Services

Braun, F. A., Stasyukovich, K. P., and Shekhter, B. L.  
PHYSICS OF AN EXPLOSION, CHAP. XI. BRISANCE  
OF EXPLOSIVES. CHAP. XII. CUMULATION. [1962]  
(163p). AERDL T-1488 (x-1).  
Order from OTS or SLA \$12.00 62-32430-5

Partial trans. of mono. [Fizika Vzryvov, Moscow,  
1959, 800p.].  
Another trans. of v. 12 is available from OTS \$9.60  
as AD-266 215, FRL TN-94.

DESCRIPTORS: Physics, \*Explosions, \*Explosion effects,  
Damage, \*Shock waves, Fragmentation,  
\*Shaped charges, \*Cavity liners, Jet flames.

See also 62-32430-3

(Physics, TT, v. 9, no. 8)

62-32430-5

- I. Title: Brisance
- I. Braun, F. A.
- II. Stasyukovich, K. P.
- III. Shekhter, B. L.
- IV. Title: Brisance ...
- V. Title: Cumulation
- VI. AERDL T-1488 (x-1)
- VII. Army Engineer Research and Development Labs., Fort Belvoir, Va.
- VIII. Research Information Service, New York

Office of Technical Services

<p>Baum, F. A., Stanyukovich, K. P., and Shekhter, B. I. PHYSICS OF AN EXPLOSION, CHAP. XIII: EXPLOSION IN AIR. [1962] [135]p. AFRDL T-1488 (m). Order from UTS or SLA \$16.50 62-32430-6</p> <p>Partial trans. of mono. [Fizika Vzryvov, Moscow, 1959, 800p.].</p> <p>DESCRIPTORS: Physics, *Explosions, Air, Explosion effects, Damage, *Shock waves, Detonation waves, Fragmentation, Projectiles, Velocity.</p> <p>Content: Fundamental physical effects originating as a result of an explosion One-dimensional dispersion of detonation products Dispersion of detonation products for an inclined section (Physics, TT, v. 9, no. 8) (over)</p>	<p>62-32430-6</p> <p>I. Baum, F. A. II. Stanyukovich, K. P. III. Shekhter, B. I. IV. Title: Explosion ... V. AFRDL T-1488 (m) VI. Army Engineer Research and Development Labs., Fort Belvoir, Va. VII. Research Information Service, New York</p> <p>Office of Technical Services</p>
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Baum, F. A., Stanyukovich, K. P., and  
Shekhter, B. I.  
PHYSICS OF AN EXPLOSION. CHAP. XIV. EXPLO-  
SIONS IN DENSE MEDIA. CHAP. XV. SYMPATHETIC  
DETINATION. [1962] [147]p. AERDL T-1488 (n-o).  
Order from OTS or SLA \$1.00 62-32430-7

Partial trans. of mono. [Fizika Vzryvov, Moscow,  
1959, 800p.]

DESCRIPTORS: Physics, \*Explosions, \*Shock waves,  
\*Wave transmission, Theory, Projectiles, Gases,  
Water, Solids, Continuous media, Soils, \*Meteorites,  
Impact shock, \*Detonations.

See also 62-32430-6

(Physics, TT, v. 9, no. 8)

62-32430-7

- I. Title: Sympathetic detonation
- II. Baum, F. A.
- III. Stanyukovich, K. P.
- IV. Title: Explosions ...
- V. Title: Sympathetic ...
- VI. AERDL T-1488 (n-o)
- VII. Army Engineer Research and Development Labs., Fort Belvoir, Va.
- VIII. Research Information Service, New York

Office of Technical Services

Baum, P. A., Stanyukovich, K. P., and Shekhter,  
B. I.

PHYSICS OF AN EXPLOSION, SUPPLEMENT: TO-  
WARD THE THEORY OF CUMULATION OF GASES.  
[1962] [15p]. AERDL T-1488 (p); RIS E-881.  
Order from OTS or SLA \$1.60 62-32430-8

Partial trans. of mono. [*Fizika Vzryvu*, Moscow,  
1959, 800p.].

DESCRIPTORS: Physics, \*Explosions, \*Shock waves,  
Gases, Dynamics, Theory.

(See also 62-32430-7)

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62-32430-8

- I. Baum, P. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. Title: Toward ...
- V. AERDL T-1488 (p)
- VI. RIS E-881
- VII. Army Engineer Re-  
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Baum, F. A., Stanyukovich, K. P., and Shekhter,  
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PHYSICS OF AN EXPLOSION: CONTENTS [AND]  
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Order from OTS or SLA \$1.10

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Partial trans. of mono. [*Fizika Vzryva*, Moscow,  
1959, 800p.]

DESCRIPTORS: Physics, Explosions, Indexes.  
(See also 62-32430-8)

(Physics, PT, v. 9, no. 8)

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- I. Baum, F. A.
- II. Stanyukovich, K. P.
- III. Shekhter, B. I.
- IV. AERDL T-1488 (q)
- V. Army Engineer Research  
and Development Lab.,  
Fort Belvoir, Va.
- VI. Research Information  
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Office of Technical Services

S-487/63

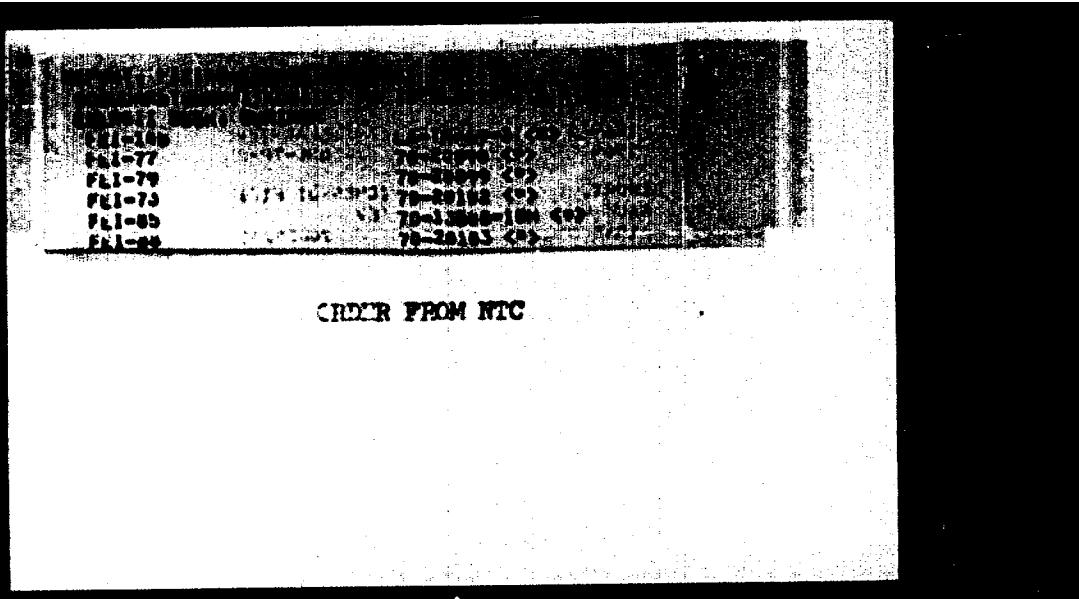
Physics of Earthquakes and Explosion Seismology,  
by I. L. Hersesov. (DC-8627)

RUSSIAN, bk, Fizika Zemletryaseniy i Seysmika  
Vzryvov, ~~Strogo konfidentialnyj dokument~~  
~~O. V. M. S. S. R.~~, No 25 (1962), 1962, pp 3-360.

JPRS 20,465

Sci - Earth Sci

May 63



Physical and Geographic Mapping, Part III,  
by A. G. Isachenko, 189 pp.  
RUSSIAN, bk. Fiziko-Geograficheskoye  
Kartirovaniye, Chast' III, 1961, 253 pp.

ACSI I-2669

ID 235111

FD 2204019866-✓

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Geog  
Mar 66

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Physiographic Provinces, by N. I. Mikhaylov,  
47 pp.

RUSSIAN, per, Fiziko-Geograficheskiy Oberk,  
1956, pp (abstracts from entire 1955 publication).  
(CALL No 08239, M5 M63, 1956, 2 v.)

MS

170, 459

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(DC-6751)

Distribution of Tree Belts in Severely Dissected  
Terrain, by D. L. Amund, 7 pp.

RUSSIAN, bk, "Fiziko-Geograficheskaya Osnovy  
Proektirovaniya Zemel' Polezashchitnykh" ESDN  
Leonykh Polos, 1961, pp 305-309.

JPRS 13525

199, 667

Sci - Biol  
May 62

R-73/62

Physical and Geographical Division into Rayons, by  
N. I. Mikhaylov, (DC-6696)

RUSSIAN, bk, Fiziko-Geograficheskoye Rayonirovaniye,  
1960, pp 16-17.

\*JPKS

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12 Mar 62

Principles of Geomorphological Zoning,  
by Chou Ting-ju, 26 pp.

bK  
RUSSIAN, [REDACTED], Fiziko-Geograficheskoye  
Rayonirovaniye Kitaya, 1957, pp 46-64.  
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OB 316, C572.

ABE

PK - China

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Nov 59

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Levich, V. G.  
MOVEMENT OF DROPS AND BUBBLES IN LIQUID  
MEDIA. Jan 62. 12p. 34 refs.  
Order from ICB in v. 2, no. 1, \$15.00/year

Partial trans. of mono. [Fiziko-Khimicheskaya  
Gidrodinamika] (Physicochemical Hydrodynamics)  
[2d ed] Moscow, 1959.

DESCRIPTORS: Hydrodynamics, \*Bubbles, Absorp-  
tion, Velocity, Viscosity, Resistance, Diffusion,  
Mathematical analysis, \*Drops.

(Mechanics--Hydrodynamics, TT, v. 8, no. 10)

62-34298

- I. Levich, V. G.
- II. Title: Physicochemical ...
- III. International Chemical  
Engineering, New York

Office of Technical Services

Levich, V. G.  
PHYSICOCHEMICAL HYDRODYNAMICS, 2D ED  
REV. 1962, lv. 700p.  
Order from Prentice-Hall, Inc., Englewood Cliffs, N. J.  
\$20.00

Trans. of mono. Fiziko-Khimicheskaya Gidrodinamika,  
2d ed. rev., Moscow, 1959, 699p.

DESCRIPTORS: \*Physical chemistry, \*Hydrodynamics,  
Chemistry.

(Chemistry--Physical, TT, v. 9, no. 8)

63-12790

I. Levich, V. G.  
II. Prentice-Hall, Inc.,  
Englewood Cliffs, N. J.  
III. Scripta Technica, Inc.,  
Washington, D. C.

Office of Technical Services

Physicochemical Hydrodynamics, by ~~Yakovlev~~ Levich  
G. Levich, 716 pp.

RUSSIAN, bk., Physiko-Khimicheskaya Gidrodinamika,  
Moscow, 1959, 1P1-177.

ABC-22-5555

Sci - Phys

FREUDEN - HALL

Jun 63

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Mass Spectrometric Methods of Determining Small Quantities of Impurities, by S.Ye. Kupriyanov.

37 pp.

RUSSIAN, per, Fiziko-Khimicheskiy Institut.

Problemy Fizicheskoy Khimii, No 3, 1963,

pp 66-75. P100017666

FID-MI-65-226

Sci/Physics

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Double Mass Spectrometer for the Investigation  
of Dissociation of Ions During Collision with  
Atoms and Molecules of Different Gases, by  
S. Ye. Kupriyanov. 37 pp.  
RUSSIAN, per, Fiziko-Khimicheskiy Institut.  
Problemy Fizicheskoy Khimii, No 3, 1963,  
pp 76-85. P100017666  
FTD-MT-65-226

Sci/Physics  
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Table of Contents and Review of:  
Physical and Chemical Studies of Austenitic Alloys,  
10 pp.

RUSSIAN, bk, Fiziko-Khimicheskiye Issledovaniya  
Austenitnykh Splavov, Tsentral'nyy Nauchno Issledovatel-  
skiy Institut Tekhnologii i Mashinostroyeniya, Moscow,  
1957, 258 pp.

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Lib of Congress

Annotation and T/C of

Physical-Chemical Investigations of Austenite Alloys, 3 P

RUSSIAN, bk, Fiziko-Khimicheskie Issledovaniya  
Austenitnykh Splavov, Moscow, 260 pp.

Engr Res and Devel Lab  
Ft Belvoir, Va

Apparatus for Measuring Magnetic Susceptibility  
of Austenitic Alloys, S. D. ENTIN.

RUSSIAN, bk., Fiziko-Khimicheskie Issledovaniya  
Austenitnykh Splatov, 1957.

\*BISI E 2109

Sci - 100-1000

Jun 61

Electromagnetic Apparatus for Determining Ferrite  
in Weld Seams in Austenitic Steels, by S. D. EWTIN,  
and V. Ya. KOZLOV.

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Austenitnykh Splavov, 1957

\*BISI E 2200

Sci - *[Handwritten]*

Jun 61

Physicochemical Investigation of Sedimentary Iron  
and Manganese Ores and Enclosing Rocks (Oxidation-  
Reduction and Basic-Acid Properties of Sedimentary Ore-  
Bearing Complexes, by E. I. Sokolova.

RUSSIAN, mono, Fiziko-Khimicheskie Issledovaniya  
Osnadochnykh Zheleznykh i Margantsevykh Rud i  
Vmeschayushchikh Ikh Porod, Moscow, 1952, 214 pp.

•IPST 2062  
Also TT-65-22473

Sci  
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Physico-Chemical Investigations on Barium and  
Iron Titanates, by N. I. Shchepochkin,

RUSSIAN, monograph, Fiziko-Khimicheskiye  
Issledovaniya Titanatov Bariya i Zheleza,  
1958, pp 1-62.

\*JPRS

Sci - Min/Met

13 Mar 61

Physical-Chemical Mechanics of Metals -  
AdSORPTION Phenomena and Fracture  
Processes, by V. I. Likhtman, et al. 244/1.

RUSSIAN, mono, Fiziko-Khimicheskaya Mekhanika  
Me'allov; Adsorbtionnye Yavleniya v  
Protsessakh Deformatsii i Razrusheniya, 1962,

302 RP

PL-480

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Mar 63

Physicochemical Basis of the Analysis of the  
Paragenesis of Minerals, by D. S. Borzhinskii, 180 pp.

RUSSIAN, bk, Fiziko Khimicheskiye Osnovy Analiza  
Paragenesicov Mineralov, 1977, 200-pp. IBC Jun-  
Feb 1979.

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Sci - Min/Met

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Effect of Vacuum Degassing on Casting Properties of Alloys, by Yu. A. Nekrasov, 36 pp.  
RUSSIAN, br. Fiziko-Khimichkiye Osnovy Metallurgicheskikh Protsessov, 1961, pp. 266-297.  
JPRS 30212

USSR  
Sci-Mat/Met  
May 65

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The Physico-chemical Principles of  
Metallurgical Processes.  
RUSSAIN, bk (Symposium of Articles),  
Fiziko-Khimicheskie Osnovy Metallurgicheskikh  
Protsessov, 1964, 444 pp.  
MLL RTS 31405 (On Loan)

Aug 65

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The Physicochemical Principles of Igneous Petrology,  
by A. N. Zavaritskii and V. S. Sobolov, 220 p.  
RUSSIAN, mono, Fiziko-Khimicheskie Osnovy Petrografii  
Izverzhennykh Gornykh Porod, 1961.  
IPST-2056

Sci-Bar Sci  
Jun 66

303,723

Oxidation of Chromium and Phosphorus  
During Oxygen Top Blowing of Steel,  
by N. P. Levenets, et al.

RUSSIAN, ~~EMM~~, rpt, Fiz-Khim Osnovy EMM  
Proiz, 1961, pp 237-244.

HB 5361

Sci - Chem

Jan 62

178, 322

Refining of Rimmed Steel by Removal of High  
Melting Inclusions, by S. I. Popel, G. F. Konovalev.  
RUSSIAN, rpt, Fiz-Khim Osnovy Protsvoda Stali,  
1961, pp 325-330.  
•EISI 3751

Sci & Engg M/M  
Jun 64

Effect of Carbon on the Permeability  
of Steels to Hydrogen, by P. V. Gel'd,  
R. A. Ryabov.

RUSSIAN, rpt, Miz-Khim Osnovy Proiz Stali,  
1961, pp 457-460.

HB 5360

Sci - Chem

Jan 62

178, 313

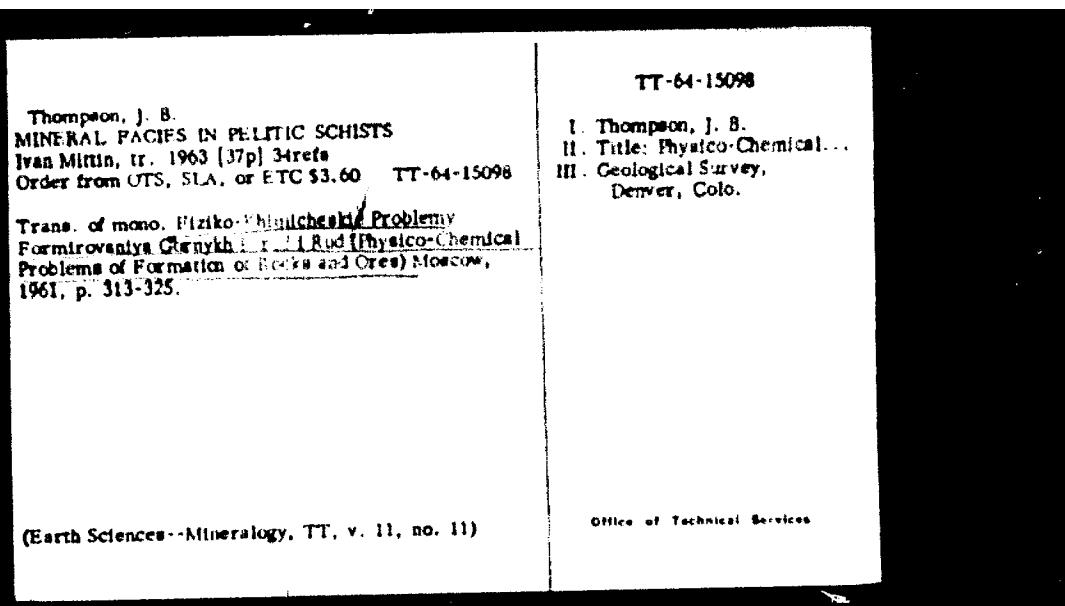
Physicochemical Process of Chemical Deposition  
of Nickel, by K. M. Gorbunova, A. A. Nikiforeva.

RUSSIAN, monograph, Fiziko-Khimicheskiye  
Osnovy Protsessa Khimicheskogo Nikelirovaniya,  
Moscow, 1960, 207 pp.

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OTS 63-11003

Sci  
14 Feb 63  
Vol VIII, No 11



Pressure-Temperature Diagram of Part of the  
 $\text{SiO}_2\text{-H}_2\text{O}$  System, by I. A. Ostrovskiy and G. P.  
Mishina, et al.  
RUSSIAN, per, Fizikokhimicheskie Problemy  
formirovaniya Gornykh Porod i Rud, Vol 1,  
1981, pp 641-646. 100031466  
APCRL T-R-628

Sci-Phys  
Sept 66

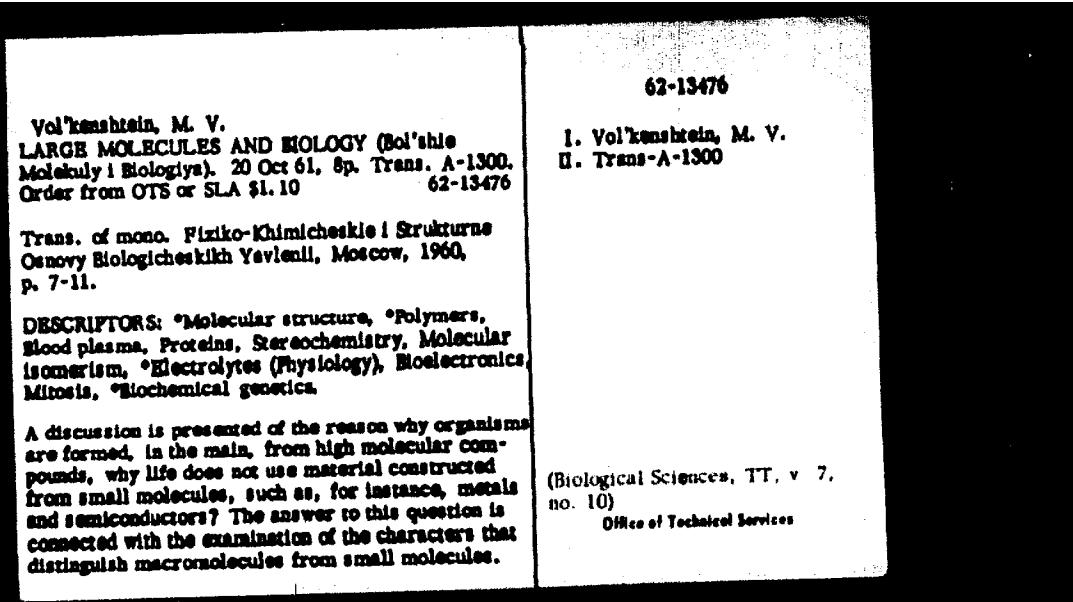
310,583

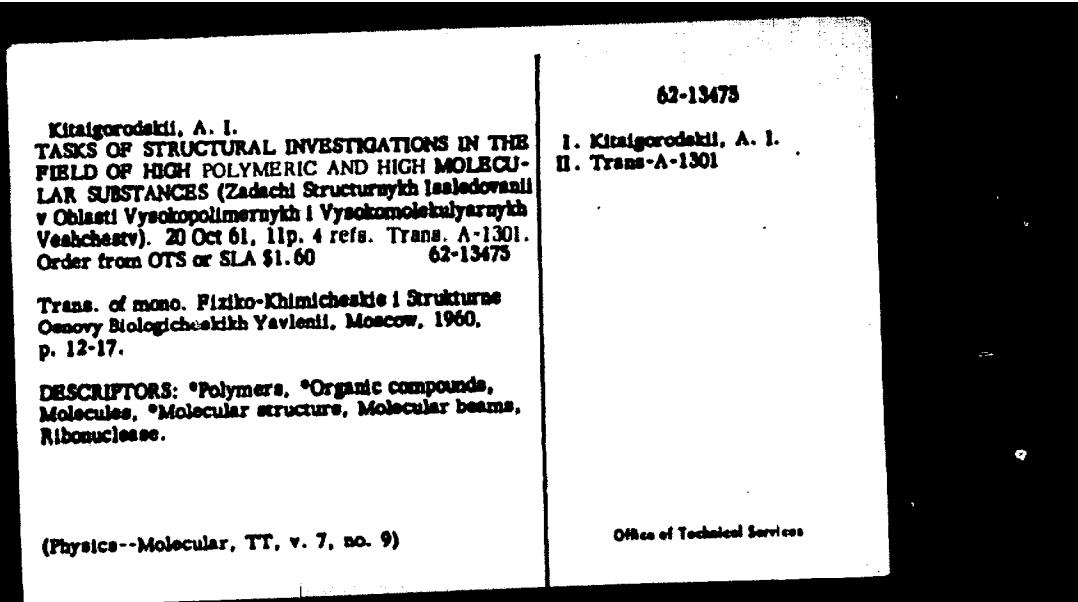
Forward, by G. M. Frank.

~~MURKIN, W., Fischer-Meldeleseie i. Siedlisczko  
Gmach Meldeleseie i. Siedlisczko, 1960, pg 340.~~

~~WYDRA~~

~~Sci -  
Aug 61~~





Dubinin, N. P., Sidorov, B. N., and Sokolov, N. N.  
RADIOGENETIC EFFECT OF VISIBLE LIGHT IN  
PROVOKING CHROMOSOMAL REARRANGEMENTS  
(Radiogeneticheskii Effekt Vidimogo Svetu pri  
Vzyvaniil Khromosomnykh Perestroek). 25 Oct 61.  
22p, 44 refs. Trans. A-1302.

Order from OTS or SLA \$2.60 62-13474

Trans. of mono. *Fiziko-Khimicheskie i Strukturne*  
*Osnovy Biologicheskikh Yavlenii*. Moscow, 1960.  
p. 142-153.

DESCRIPTORS: \*Chromosomes, Cells (Biology),  
Photochemistry, Mitosis, Chemical reactions,  
Genetics, \*Light, Visibility, Radiation effects.

The photodynamic action of rivanol in relation to  
chromosome rearrangements in the cells of onion  
roots was demonstrated. Photons, even with energy  
as low as that of visible light, in penetrating into the  
(Nuclear Physics--Radioactivity, TT, v. 6, no. 1)(over)

62-13474

I. Dubinin, N. P.  
II. Sidorov, B. N.  
III. Sokolov, N. N.  
IV. Trans-A-1302

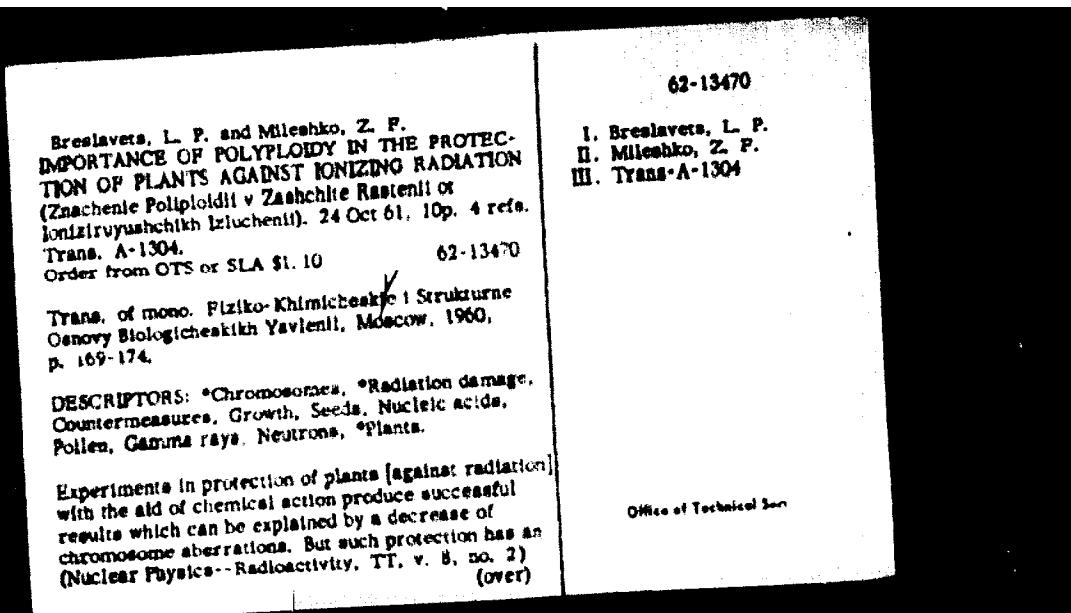
Office of Technical Services

Importance of Histo-Chemical Characteristics of  
Isoelectric Points of Nucleo-Proteins of Cell  
Vytoplasm of the Animal Organism in the Theory of  
Radio Biological Reactivity, by A. L. Shabotin, 26<sup>th</sup>

BYURSIAN, M., Vasil'ev-Pavlovskie I. Stepanov  
Chemical Biology, No. 1, 1959, pp. 154-168.

AMDA A-1303

Sci -  
14 Aug 61



Physico-Chemical Basis of the Process of Gluing  
and Adhesion, by N. I. Mockvitin.  
RUSSIAN, bk. Fiziko-khimicheskie osnovy protsessov  
kleivaniya i prilipaniya — Moskva, Leningrad  
Promsvyazgost', 1964, 248 pp.  
\*CISTI TT 68-50368

Sci/Chem  
Feb 68

Physico-Chemical Properties of the Elements,  
by G. V. Samsonov,  
RUSSIAN, bk, Fiziko-Khimicheskie Svoistva  
Elementov, 1965.

\*CB  
fourth quarter 1966

May 66

Physicochemical Properties of Individual Hydro-  
carbons, by V. M. Tatevskiy, (edited by).

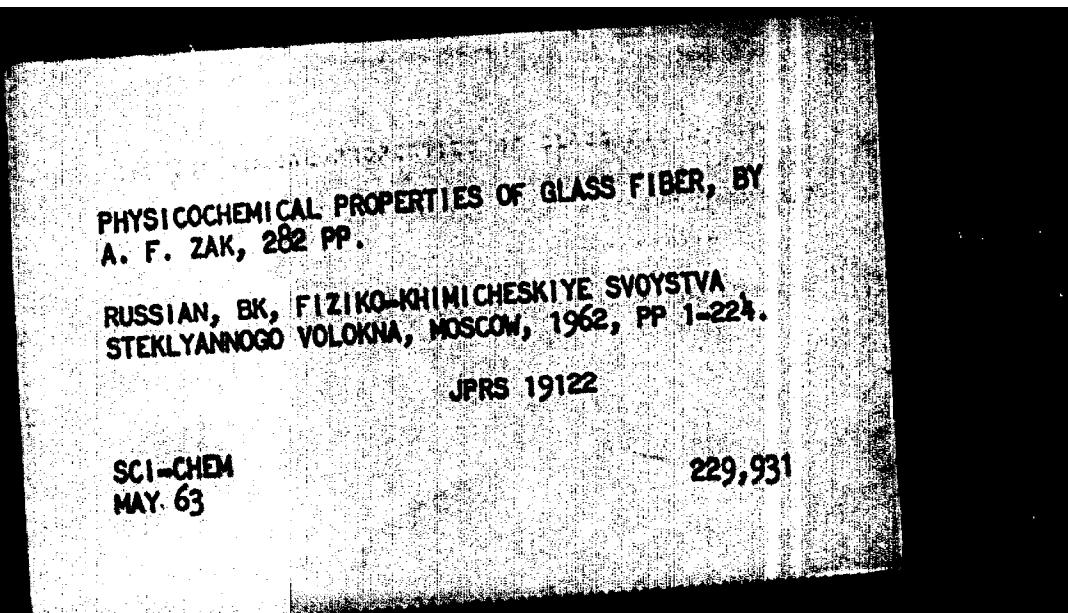
RUSSIAN, bk, Fiziko-Khimicheskie Svoista  
Individuul'nykh Ugleuodorodov, 1961.

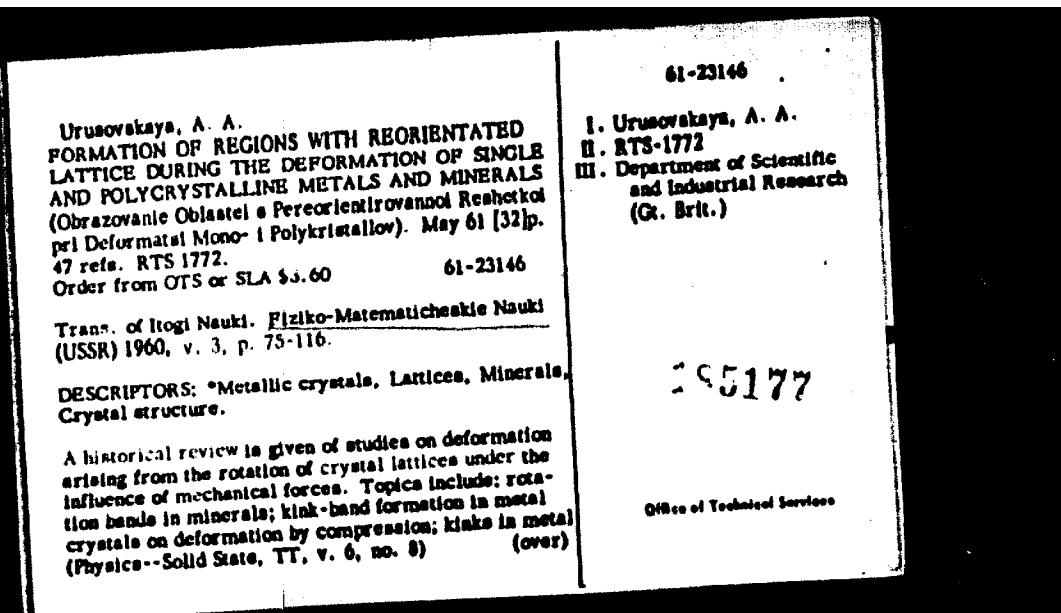
\*ATS

Sci - Chem

Oct 62

*after compilation and  
"Rekomenduyushchij"  
Znacheniya"*





Ostroumov, G. A.  
THEORY OF MAGNETIC MIXING OF MELTS, by  
Z. Lerman. 1963, 44p. 9 refs. PL-480 Comm.  
Order from OTS \$0.50 63-11002

Trans. of mono. Fiziko-Matematicheskie Osnovy  
Magnitnogo Peremeshivaniya Raspal'vov, Moscow, 1960  
(63 p.)

DESCRIPTORS: \*Electroforming, \*Liquid metals,  
Mixtures, \*Hydrodynamics, Metallurgy, Theory,  
Electromagnetic waves, Propagation,  
Magnetohydrodynamics.

This book contains an electrodynamic part, where the  
propagation of a travelling wave in a half-space and in  
a finite conductor are discussed and the distribution of  
electrodynamic body forces is derived; a hydrodynamic  
part, dealing with the optimization of stator current  
(Metallurgy, TT, v. 10, no. 3) (over)

63-11002

I. Ostroumov, G. A.  
II. PL-480 Comm (63-11002)  
III. National Science  
Foundation,  
Washington, D. C.

Office of Technical Services

Physico-Mathematical Fundamentals for Magnetic  
Mixing of Melts, by G. A. Ostroumov.

RUSSIAN, monograph, Fiziko-Matematicheskiye  
Osvovy Magnitnogo Peremeshivaniya Rasplavov,  
Moscow, 1960, 63 pp.

~~PL-430~~  
Q72 15-1032

Sci  
14 Feb 63  
Vol VIII, No 11

Physical and Mechanical Properties of  
Electrolytic Coatings, by A. Vagramyan,  
Yu. Petrova, N. I. [illegible]  
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RUSSIAN, bk, Fiziko-Mekhanichkie Svoista  
Elektroliticheskikh, 1960, No. 1

Sci - Engr

Jul 61

ACB  
P

POL 425  
Not Due 10/1/61

AEC (UCRL-Trans-10502) PHYSICAL NATURE OF  
THE DENSITY OF IGNEOUS AND METAMORPHIC ROCKS  
AND ITS PHYSICAL SIGNIFICANCE. Zhdanov, V. V. Trans-  
lated by A. M. Mincer for Univ. of California Lawrence Radiation  
Lab., Livermore, from Fiziko-Mekhanicheskie Svoistva  
Gornykh Porod Verkhnei Chasti Zemnoi Kory. November 30-  
December 4, 1964, Moscow. 24p. (CONF-641140-1). Dep.  
NTIS.

21

20geology; translations 08G

20MN-51 20P NSA

Physical and Mechanical Properties of Rocks,  
152 pp.  
BRUNSLAW, Mr. Franklin Mathernecheckie  
Geophysical Report, 1964.  
CIA/CIA TT 67-51256

Sci/DMN  
Jan 68

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Burmistrova, Maria Fedorovna, et al

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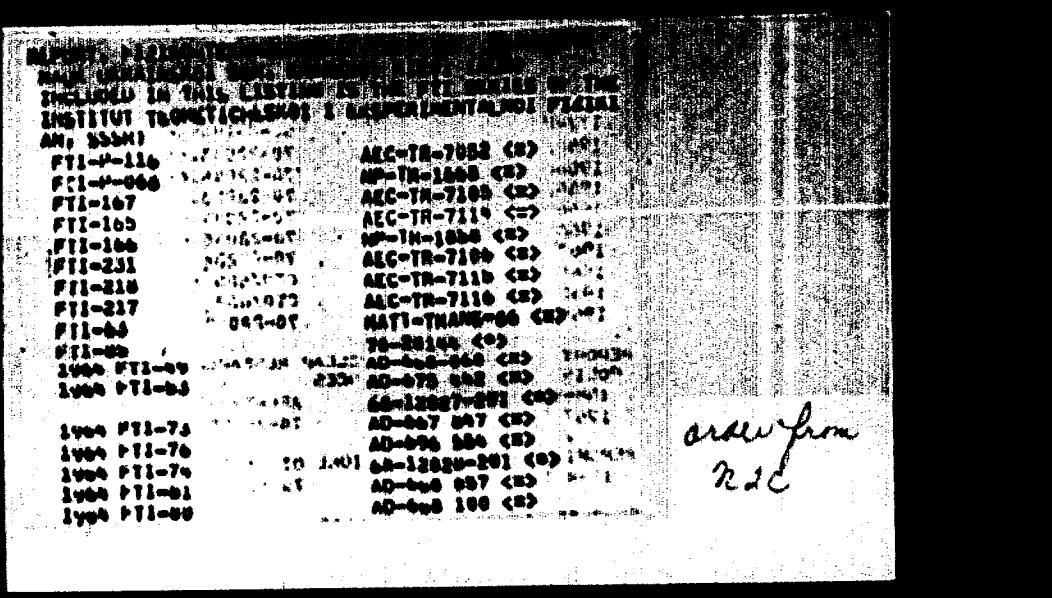
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